INCH-POUND
MIL-PRF-39012/55F
27 January 1992
SUPERSEDING
MIL-C-39012/55E
3 October 1986

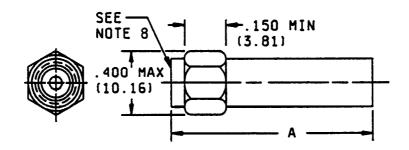
NOTE: The document identifier and heading has been changed on this page to reflect that this is a performance specification. There are no other changes to this document. The document identifier on subsequent pages has not been changed, but will be changed the next time this document is revised.

#### PERFORMANCE SPECIFICATION

CONNECTORS, PLUGS, ELECTRICAL, COAXIAL, RADIO FREQUENCY, (SERIES SMA (CABLED) - PLUG, PIN CONTACT, CLASS 2)

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-PRF-39012.



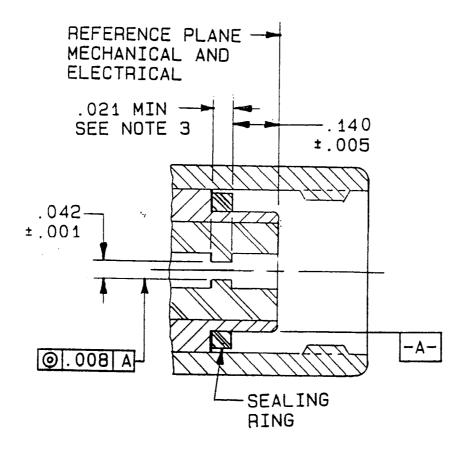
MARKING IMPLEMENTATION DATE, CATEGORY B, SEE TABLE VII

# NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. For dimension A, see tables I and V.
- 4. Dimension .400 (10.16) is the largest overall diameter of the connector.
- 5. Width across flats are to accommodate wrench, nominal size of .3125 (7.938 mm) minimum in accordance with FED-STD-H28, appendix 10, wrench openings.
- 6. Dimension A defines the overall length of connector when assembled to the cable.
- 7. All undimensioned pictoral configurations are for reference purposes only.
- 8 Series SMA, pin contact interface in accordance with MIL-STD-348.
- 9. Metric equivalents are in parentheses.

FIGURE 1. General configuration.

AMSC N/A 1 of 16
<u>DISTRIBUTION STATEMENT A</u>. Approved for public release; distribution is unlimited.



#### CATEGORY D

Insulator dimensions for category D only

| Inches | mm   |
|--------|------|
| .001   | 0.03 |
| .005   | 0.13 |
| .008   | 0.20 |
| . 021  | 0.53 |
| .042   | 1.07 |
| . 140  | 3.56 |

### NOTES:

- Dimensions are in inches.
   Metric equivalents are given for general information only.
   Chamfer is optional, if chamfer is used put chamfer on a 30° maximum.
- 4. Three holes .016 (0.41 mm) minimum diameter, equally spaced, are required for safety wiring after mating. Location on coupling nut optional.

FIGURE 2. Category D captivation detail.

TABLE I. Dash numbers, cross reference and dimensions.

| Dash<br>number                                     | Applicable cable #  | Dimensions | Inches-millimeters maximum 1/2/3/ |  |  |  |
|--|---|------------|-----------------------------------|--|--|--|
|  | Category A ~ Field serviceable (no special tools required) $\frac{4}{5}$  |            |                                   |  |  |  |
| 3006<br>3106 <u>6</u> /<br>4006<br>4106 <u>6</u> / | M17/93-RG178 *<br>  M17/169-00001 φ   |            |                                   |  |  |  |
| 3007<br>3107 <u>6</u> /<br>4007<br>4107 <u>6</u> / | M17/119-RG174   |            |                                   |  |  |  |
| 3008<br>3108 <u>6</u> /<br>4008<br>4108 <u>6</u> / | M17/54-RG122 *<br>  M17/157-00001 φ   | A          | 1.030 (26.16)                     |  |  |  |
| 3009<br>3109 <u>6</u> /<br>4009<br>4109 <u>6</u> / | M17/28-RG058<br>  M17/60-RG142 a<br>  M17/84-RG223 *<br>  M17/155-00001 φ<br>  M17/158-00001 φ<br>  M17/167-00001 φ |            |                                   |  |  |  |
| 3010<br>3110 <u>6/</u><br>4010<br>4110 <u>6/</u>   | M17/111-RG303 * a<br>  M17/170-00001 φ  |            |                                   |  |  |  |
| 3030<br>3130 <u>6/</u><br>4030<br>4130 <u>6/</u>   | M17/152-00001   |            |                                   |  |  |  |

See footnotes at end of table.

TABLE I. Dash numbers, cross reference and dimensions - Continued.

| Dash<br>number  | Applicable cable #   | Dimensions                | Inches-millimeters maximum 1/2/3/ |  |
|---|--|---------------------------|-----------------------------------|--|
|   | Category C - Field re  | placeable (MIL-C-22520 cr | imp tool) <u>4</u> / <u>7</u> /   |  |
| 3025<br>3125 <u>6</u> /<br>4025<br>4125 <u>6</u> /            | M17/93-RG178 ∞ *<br>  M17/169-00001 ∞ φ<br>  |                           |                                   |  |
| 3026<br>3126 <u>6</u> /<br>4026<br>4126 <u>6</u> /            | M17/119-RG174 Σ<br>  M17/173-00001 Σ φ   |                           |                                   |  |
| 3027<br>3127 <u>6</u> /<br>4027<br>4127 <u>6</u> /            | M17/54-RG122 * &<br>  M17/157-00001 φ &<br>  | A                         | 1.250 (31.75)                     |  |
| 3028<br>3128 <u>6</u> /<br>4028<br>4128 <u>6</u> /            | M17/60-RG142 a ~<br>  M17/158-00001 ~ φ<br>  M17/167-00001 ~ φ<br>  M17/84-RG223 * ~ |                           |                                   |  |
| 3029<br>3129 <u>6</u> /<br>4029<br>4129 <u>6</u> /            | M17/155-00001 ~ φ<br>  M17/28-RG058 * ~<br>  M17/111-RG303 ~<br>  M17/170-00001 ~ φ  |                           |                                   |  |
| Category D - Field replaceable - Defined piece parts 4/7/8/9/ |  |                           |                                   |  |
| 3502<br>3602 <u>6</u> /<br>4502<br>4602 <u>6</u> /            | M17/60-RG142 a *   M17/158-00001 φ   M17/128-RG400   M17/175-00001 φ                 | A                         | 1.250 (31.75)                     |  |

#### 1/ Millimeters are in parentheses.

- $\overline{2}$ / For logistics purposes, only connectors with safety wire holes will be stocked.
- 3/ Coupling nuts shall be corrosion resistant steel with a passivated finish in accordance with MIL-F-14072 (applies only to "-3XXX series connector).
- $\underline{4}/$  These connectors have captivated center contacts.
- All corrosion resistant steel bodied connectors which are designed to be assembled to the cable outer conductor using solder shall be gold plated in accordance with MIL-G-45204, type II, class I.
- 6/ No safety wire holes.
- 7/ These connectors are assembled, using the applicable crimp tool, to the specified cables stripped as shown on figure 4.
- 8/ Complete connector assembly shall consist of a body, center contact, ferrule, and assembly instructions.

TABLE I. Dash numbers, cross reference and dimensions - Continued.

- 9/ Not for use in army equipment.
- # The latest version of each cable shall be applicable.
- \* Cable to be used when performing tests requiring cable except as in note a.
- a Cable to be used for the +200°C temperature cycling tests. Connectors mate with connectors of the same material; i.e., M39012/59-3001 mates with M39012/55-3001, and M39012/59-4001 mates with M39012/55-4001.
- 7 freferred die M22520/5-33 closure B, alternate die M22520/5-03 closure B.
- $\Sigma$  Preferred die M22520/5-35 closure B, alternate die M22520/5-03 closure A.
- & Preferred die M22520/5-41 closure B, alternate die M22520/5-05 closure B, or -09 closure A.
- Preferred die M22520/5-19 closure B, alternate die M22520/5-05 closure A or -11, -57, closure A.
- $\phi$  Caution is directed to the application of this cable above 400 MHz. Attenuation is tested only at 400 MHz. SRL and power handling capabilities are not stipulated herein.

#### ENGINEERING DATA:

Nominal impedance: 50 ohms.

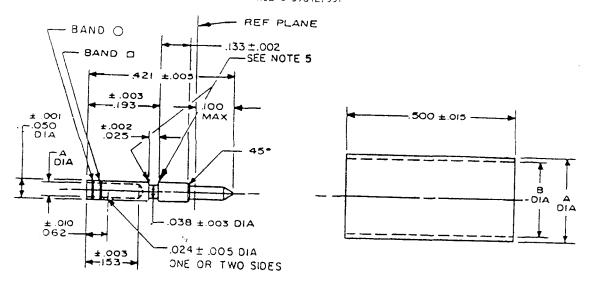
Frequency range: 0 to 12,400 MHz.

Voltage rating: The voltage rating shall be in accordance with table II.

TABLE II. Voltage rating.

| Cables   | Voltage max (at<br>  sea level) | <br>  Voltage max<br> (70,000 feet) |
|--|---------------------------------|-------------------------------------|
| <br>   | <u>V rms</u><br>170             | <u>V rms</u><br>  45                |
| M17/54-RG122, M17/157-00001<br>  M17/119-RG174, M17/173-00001<br>  M17/94-RG179,<br>  M17/113-RG316, M17/172-00001<br>  M17/152-00001                    | 250                             | 65                                  |
| M17/28-RG58, M17/155-00001<br>M17/60-RG142, M17/158-00001<br>M17/84-RG223, M17/167-00001<br>M17/111-RG303, M17/170-00001<br>M17/128-RG400, M17/175-00001 | 335                             | 85                                  |

Temperature rating: -65°C to +165°C.



# CENTER CONTACT

# CRIMP FERRULE

| Dash<br>  no.      | Contact<br> no. <u>2</u> / | A<br> ±.001 | <br> Basic crimp<br>  tool <u>1</u> /<br> | <br> Crimp die<br>  or<br> positioner        | Crimp<br>  tensile<br>  minimum | <br>  Color<br>  band<br>  [] | Color<br> band<br>  O |
|--------------------|----------------------------|-------------|---|--|---------------------------------|-------------------------------|-----------------------|
| <br> 3502<br> 4502 | 55-10                      | .041        | <br> <br> M22520/1-01                     | <br> <br> Solder or<br>  <u>M2</u> 2520/1-15 | <br> <br>  6 pounds             | Red                           | <br> Silver           |

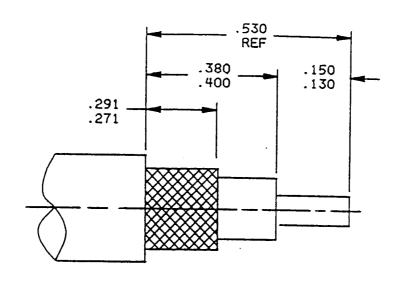
| 1    |                | 1        |       | 1           |             | Inches | mm   | Inches | mm    |
|------|----------------|----------|-------|-------------|-------------|--------|------|--------|-------|
| Dash | Ferrule        | A        | В     | Basic crimp | Crimp die   | .001   | 0.03 | .050   | 1.27  |
| no.  | no. <u>2</u> / | ±.003    | ±.003 | tool 1/     | or          | . 002  | 0.05 | .062   | 1.57  |
| •    | ı              | I        | 1     | 1           | positioner  | .003   | 0.08 | .100   | 2.54  |
|      |                | 1        | L     |             | M22520/5-   | .005   | 0.13 | .133   | 3.38  |
| 1    | •              | 1        | 1     | l           |             | . 010  | 0.25 | .153   | 3.89  |
| 3502 | 55-50          | .250     | . 220 | M22520/5-01 | M22520/5    | . 015  | 0.38 | . 193  | 4.90  |
| 4502 | 1              | 1        | •     |             | -05,-11,-57 | . 024  | 0.61 | .220   | 5.59  |
|      |                |          | 1     |             | Closure A   | .025   | 0.64 | .250   | 6.35  |
|      | 1              |          |       | 1           | or 19       | . 038  | 0.97 | .421   | 10.69 |
|      | 1              | <u> </u> | L     | <u>L</u>    | Closure B   | .041   | 1.04 | .500   | 12.70 |

- 1/ Class 2 tool may be used by OEM (see MIL-C-22520).
- $\overline{2}$ / Contact numbers and ferrule numbers are for identification only.

# NOTES:

- Dimensions are in inches.
   Metric equivalents are given for general information only.
- 3. Crimp tensile test shall be in accordance with MIL-C-39029.
- 4. Copyright notice: All information disclosed in these specification sheets which is or may be copyrighted is reproduced herein with the express permission of the copyright owner.
- 5. .003 maximum break.
- 6. Color bands shall be positioned so that no coloring material enters the inspection hole.

FIGURE 3. Contact and ferrule dimensions for category D only.



| THE   |
|-------|
| 3.30  |
| 3.81  |
| 6.88  |
| 7.39  |
| 9.65  |
| 10.16 |
| 13.46 |
|       |

- NOTES:
  1. Dimensions are in inches.
  2. Metric equivalents are given for general information only.

FIGURE 4. Cable stripping dimensions for field replaceable connectors.

#### REQUIREMENTS:

Dimensions and configuration: See figure 1.

Force to engage and disengage:

Longitudinal force: Not applicable.

Torque: 2 inch-pounds, maximum.

Coupling proof torque: 15 inch-pounds, minimum.

Inspection conditions: For each test of threaded coupling connector where the test is performed on mated

pairs, the pairs shall be torqued to 7 to 10 inch-pounds.

Mating characteristics: Reference MIL-STD-348 and figure 2 for dimensions.

Hermetic seal: Not applicable.

Leakage (pressurized connectors): Not applicable.

Insulation resistance: Method 302 of MIL-STD-202, test condition B.

5,000 megohms, minimum.

Center contact retention: 6 pounds, minimum axial force. Applicable to captivated-center-contact

connectors only.

Radial torque: Not applicable.

Corrosion (salt spray): Method 101 of MIL-STD-202, test condition B.

Voltage standing wave ratio (VSWR): From 0.5 to 12.4 GHz, or approximately 80 percent of the cutoff frequency of the test cable, whichever is lower.

<u>Cables</u> VSWR

M17/93-RG178 1.20+0.025 (F) GHz

M17/54-RG122 1.15+0.02 (F) GHz

M17/119-RG174 M17/94-RG179

M17/113-RG316, M17/152-00001

M17/28-RG058 1.15+0.01 (F) GHz

M17/60-RG142 M17/84-RG223

MIT/04-KGZZ3

M17/111-RG303

M17/128-RG400

Swept frequency VSWR test setup:

Item 6: VSWR shall be less than 1.025+.002 F (F in GHz).

Item 16: VSWR shall be less than 1,025+,002 F (F in GHz).

Second step of VSWR checkout procedure: VSWR shall be less than 1.080+.005 F (F in GHz).

Group B inspection: Use step 5, long cable method.

Qualification and group C inspection: Use step 5, long cable method.

Connector durability: Insertion and withdrawal force: 500 cycles, minimum at 12 cycles per minute, maximum. The connector shall meet the mating characteristics and force to engage and disengage requirements.

Contact resistance: In milliohms, maximum.

|                 | <u>Initial</u> | After environment |
|-----------------|----------------|-------------------|
| Center contact: | 3.0            | 4.0               |
| Outer contact:  | 2.0            | Not applicable    |
| Braid to body:  | 0.5 1/         | Not applicable    |

Dielectric withstanding voltage at sea level:

Method 301 of MIL-STD-202.

| Cables  | 34                                     |               | V rms |
|---|--|---------------|-------|
| M17/93-RG178, M17/  | 169-00001                              |               | 500   |
| M17/54-RG122, M17/<br>M17/119-RG174, M17<br>M17/94-RG179<br>M17/113-RG316, M17                          | /173-00001                             | M17/152-00001 | 750   |
| M17/28-RG058, M17<br>M17/60-RG142, M17<br>M17/84-RG223, M17<br>M17/111-RG303, M17<br>M17/128-RG400, M17 | /158-00001<br>/167-00001<br>/170-00001 |               | 1,000 |

Vibration, high frequency: Method 204 of MIL-STD-202, test condition D. No discontinuity permitted.

Shock: Method 213 of MIL-STD-202, test condition I. No discontinuity permitted.

Thermal shock: Method 107 of MIL-STD-202, test condition B, except test high temperature shall be +85°C.

High temperature shall be  $\pm 200^{\circ}\text{C}$  for connectors using  $\pm 200^{\circ}\text{C}$  cables (see tables I and V).

Moisture resistance: Method 106 of MIL-STD-202.

No measurements at high humidity. Insulation resistance shall be at least 200 megohms within 5 minutes after removal from humidity.

<sup>1/</sup> Five milliohms are permissible on all passivated steel bodied connectors.

#### Corona level:

Altitude: 70,000 feet.

| Cables  | Volts (min)          |
|---|----------------------|
| M17/93-RG178, M17/169-00001   | 125                  |
| M17/54-RG122, M17/157-00001<br>M17/119-RG174, M17/173-00001<br>M17/94-RG179<br>M17/113-RG316, M17/172-00001, M17/152-0                                    | 190<br>9 <b>0001</b> |
| M17/28-RG058, M17/155-00001<br>M17/60-RG142, M17/158-00001<br>M17/84-RG223, M17/167-00001<br>M17/111-RG303, M17/170-00001<br>M17/128-RG400, M17/175-00001 | 250                  |

# RF high potential withstanding voltage:

Frequency: 5 to 7.5 MHz

Leakage current: Not applicable.

| Cables  |   | Volts (min) |
|---|---|-------------|
| M17/93-RG178, M   | 17/169-00001                                    | 335         |
| M17/54-RG122, M<br>M17/119-RG174,<br>M17/94-RG179<br>M17/113-RG316,                 |   | 500         |
| M17/28-RG058,<br>M17/60-RG142,<br>M17/84-RG223,<br>M17/111-RG303,<br>M17/128-RG400, | M17/158-00001<br>M17/167-00001<br>M17/170-00001 | 670         |

Cable retention force: The cable retention force shall be in accordance with table III.

TABLE III. Cable retention force.

| Cable dielectric | Pounds (min)      |              |  |
|------------------|-------------------|--------------|--|
| outer diameter   | <br> Single braid | Double braid |  |
| Inches (max)     |                   | <br>         |  |
| .036             | 10                | N/A          |  |
| .067             | 20                | N/A          |  |
| .110             | 30                | N/A          |  |
| . 122            | 40                | 45           |  |

Coupling mechanism retention force: 60 pounds, minimum.

Safety wire hole pull out: Applicable.

RF leakage: -60 dB minimum tested at a frequency between 2 and 3 GHz.

RF insertion loss: dB maximum = .06 x  $\sqrt{\text{freq GHz}}$ . Test frequency at 6.0 GHz.

Part number: M39012/55- (dash number from table I or "B" number from table V).

TABLE IV. Group qualifications and retention testing.

| Group | Submission and qualification of any of the following connectors 1/2/ | Qualifies the following   connectors <u>3</u> / |
|-------|--|---|
| I     | M39012/55-‡009   | M39012/55-‡006                                  |
|       |  | M39012/55-±007                                  |
|       |  | M39012/55-±008                                  |
|       | , , , , , , , , , , , , , , , , , , ,                                | M39012/55-±009<br>  M39012/55-±010              |
|       |  | M39012/55~±030                                  |
|       |  |   |
| 11    | M39012/55B±015   | <br>  m39012/55B±011                            |
| **    | 11370127334413   | M39012/55B±012                                  |
|       |  | M39012/55B±013                                  |
|       | i  | M39012/55B±014                                  |
|       |  | M39012/55B±015                                  |
|       | İ  | M39012/55B±016                                  |
|       | i .  | M39012/55B‡017                                  |
|       |  |   |
| III   | M39012/55B#022   | и39012/55в‡018                                  |
|       |  | M39012/55B#019                                  |
|       | •  | M39012/55B‡020                                  |
|       |  | M39012/55B#021                                  |
|       |  | M39012/55B#022                                  |
|       |  | M39012/55B#023                                  |
|       |  | M39012/55B‡024                                  |
|       |  |   |
| IV    | M39012/55-‡028   | M39012/55-‡025                                  |
|       | İ  | M39012/55-‡026                                  |
|       |  | M39012/55-±027                                  |
|       |  | M39012/55-‡028                                  |
|       |  | M39012/55-±029                                  |
| ٧     | M39012/55-±502   | M39012/55-±502                                  |

- 1/ Individual connectors other than listed are self qualifying only.
- $\overline{2}$ / Qualification of connectors qualifies connectors of the same material only.
- 3/ Connectors qualified with safety wire holes automatically qualifies connectors without safety wire holes.
- Denotes material.

### NOTES:

- For qualification retention, where more than one part is listed in a group in this column, data may be supplied on any of those parts in order to retain qualification for those parts in the corresponding right hand column. The part does not necessarily have to be the part initially qualified.
- 2. If a connector manufacturer produces a connector which meets all the requirements for two or more connector part numbers (within the same series), the manufacturer may receive qualification approval for two or more connector part numbers by qualifying the one connector. It is not necessary that such connectors be in the same group. Each connector, however, must be marked with its own appropriate part number. For group qualification, the connectors must be of similar design.

TABLE V. Category B - Nonfield replaceable (special tools may be required).

# Not for Air Force or Navy use. For OEM use only.

| M3901                        | 12/558 ‡      | Applicable<br>  cable<br>  M17/#   | <br>  Dimensions<br> | Inches 1/2/3/4/<br>(millimeters)<br>maximum |
|------------------------------|---------------|--|----------------------|---|
| 3011<br>3111<br>4011<br>4111 | _             | <br> M17/93-RG178<br> M17/169-00001¢<br>   |                      |   |
| 3012<br>3112<br>4012<br>4112 | 6/ <u>5</u> / | 17/119-RG174<br> M17/119-RG174<br> M17/113-RG316<br> M17/173-00001φ<br> M17/172-00001φ |                      |   |
| 3013<br>3113<br>4013<br>4113 |               | <br> <br> M17/54-RG122*<br> M17/157-00001φ<br>   | A                    | <br> <br> <br> <br> <br>  1.250(31.75)      |
| 3014<br>3114<br>4014<br>4114 | _             | <br> M17/28-RG058*<br> M17/155-00001φ<br>  |                      |   |
| 3015<br>3115<br>4015<br>4115 | _             | M17/60-RG142*a<br> M17/158-00001ф  |                      |   |
| 3016<br>3116<br>4016<br>4116 |               | M17/84-RG223*<br>M17/167-00001¢  | ÷ :                  |   |
| 3017<br>3117<br>4017<br>4117 |               | M17/111-RG303*<br>M17/170-00001φ   |                      |   |

See footnotes at end of table.

# TABLE V. Category B - Nonfield replaceable (special tools may be required) - Continued.

# Not for Air Force or Navy use. For OEM use only.

| m3901                           | 2/55B ‡       | Applicable<br>cable<br>M17/#   | Dimensions       | Inches <u>1</u> / <u>2</u> / <u>3</u> / <u>4</u> /<br>(millimeters)<br>maximum |
|---------------------------------|---------------|--|------------------|--|
| 3018<br>3118<br>4018<br>4118    |               | <br> M17/93-RG178<br> M17/169-00001φ<br>   |                  |  |
| 3019<br> 3119<br> 4019<br> 4119 | 6/ <u>7</u> / | 17/119-RG174<br>  M17/119-RG174<br>  M17/173-00001 $\phi$<br>  M17/113-RG316<br>  M17/172-00001 $\phi$ | <br> <br>  A<br> | 1.375(34.93)   |
| 3020<br>3120<br>4020<br>4120    | _             | <br>  H17/54-RG122*<br>  H17/157-00001 $\phi$<br>  |                  |  |
| 3021<br>3121<br>4021<br>4121    |               | <br> M17/28-RG058*<br> M17/155-00001\$\phi\$<br>   |                  |  |
| 3022<br>3122<br>4022            | _             | <br> M17/60-RG142*a<br> M17/158-00001\$\phi  |                  |  |
| 3023<br> 3123<br> 4023<br> 4123 | <u></u> '     | <br> M17/84-RG223*<br> M17/167-00001¢<br>  | <b>A</b>         | 1.375 (34.93)  |
| 3024<br>3124<br>4024<br>4124    |               | <br> M17/111_R6303<br> M17/170-00001 <b>¢</b><br> <br>   |                  |  |

 $<sup>\</sup>underline{1}$ / Millimeters are in parentheses.

<sup>2/</sup> Coupling nuts shall be corrosion resistant steel with a passivated finish in accordance with MIL-F-14072. Existing qualified parts may be supplied until 25 July 1986. (applies only to "-3XXX" series connectors).

<sup>3/</sup> For logistics purposes, only connectors with safety wire holes will be stocked.

TABLE V. <u>Category 8 - Nonfield replaceable (special tools</u> may be required) - Continued.

Not for Air Force or Navy use. For OEM use only.

- 4/ All corrosion resistant steel bodied connectors which are designed to be assembled to the cable outer conductor using solder shall be gold plated in accordance with MIL-G-45204, type II, class I.
- 5/ Inactive for new design.
- 6/ No safety wire holes.
- $\overline{\underline{7}}/$  These connectors have captivated center contacts.
- $\vec{\#}$  The latest version of each cable shall be applicable.
- \* Cable to be used when performing tests requiring cable except as in note ພິ.
- a Cable to be used for the +200°C temperature cycling tests.
- Connectors mate with connectors of the same material; i.e., M39012/59-3001 mates with M39012/55-3001, and M39012/59-4001 mates with M39012/55-4001.
- $\phi$  Caution is directed to the application of this cable above 400 MHz. Attenuation is tested only at 400 MHz. SRL and power handling capabilities are not stipulated herein.

TABLE VI. Maintenance replacements for category B.

|                            | 1                           |                             |                                   |
|----------------------------|-----------------------------|-----------------------------|-----------------------------------|
| Category 8<br>dash number* | Category C<br>  dash number | Category A<br>  dash_number | <br>  Category D<br>  dash number |
|                            |                             |                             |                                   |
| B <b>‡</b> 011             | 025                         | 006                         |                                   |
| 8‡012                      | 026                         | 007                         |                                   |
| 8‡013                      | 027                         | 008                         |                                   |
| 8‡014                      | 029                         | 009                         | i                                 |
| B#015                      | 028                         | 009                         | 502                               |
| 8#016                      | 028                         | 009                         |                                   |
| 8#017                      | 029                         | 010                         |                                   |
| B#018                      | 025                         | 006                         |                                   |
| B#019                      | 026                         | 007                         |                                   |
| B#020                      | 027                         | 008                         |                                   |
| B±021                      | 029                         | 009                         |                                   |
| B±022                      | 028                         | 009                         | 502                               |
| B±023                      | 028                         | 009                         |                                   |
| B±024                      | 029                         | 010                         |                                   |

<sup>\*</sup>Category B connectors are for original installation only.
They will not be stocked or acquired by the Government.

‡The material of the item shall be the same material as the item being replaced. Example: 55B3011 (corrosion resistant steel) replaces 55-3025.

TABLE VII. Cross reference of part numbers.

| <br>  M39012/55B <u>1</u> /                    | M39012/55-   | <br>  M39012/55B <u>1</u> /   | M39012/55-   |
|--|--|---|--|
|  | #011   #111   #112   #113   #114   #114                | \$\frac{1}{1018}\$ \$\frac{1}{1118}\$ \$\frac{1}{1019}\$ \$\frac{1}{1119}\$ \$\frac{1}{120}\$ \$\frac{1}{121}\$ | ‡018<br>‡118<br>‡019<br>‡119<br>‡020<br>‡120<br>‡021<br>±121 |
| ‡015<br>  ±015<br>  ±016<br>  ±116 7<br>  ±017 | ‡015  <br>‡115  <br>‡016  <br>‡116  <br>‡017  <br>‡117 | ‡022<br>‡122<br>‡023<br>‡123<br>‡123<br>‡024<br>‡124  | ‡022<br>‡122<br>‡023<br>‡123<br>‡024<br>‡124                 |

- 1/ The 'B' part number is required marking for connectors manufactured after 3 April 1987. The connectors that are in stock or distribution that were previously qualified and marked with the old part number shall also be considered acceptable for Government use until stock is purged.

  (Applies to category 'B' part number change only; M39012/XXBXXXX).
- ‡ The material of the item shall be the same material as the item being replaced. Example: 5583011 (corrosion resistant steel) replaces 55-3025.

Revision letters are not used to denote changes due to the extensiveness of the changes.

# CONCLUDING MATERIAL

Custodians:

Army - CR Navy - EC

Air Force - 85

NASA - NA

Review activities:

Army - EA, MI Navy - SH

Air Force - 11, 17, 99

DLA - ES

User activities:

Army - AT, AV Navy - AS, MC, OS, SH

Air Force - 19

Preparing activity:

Army - CR

Agent: DLA - ES

(Project 5935-3754-01)